

WORLD BANK



1
00:00:04,950 --> 00:00:02,629
please welcome will i am and the head of

2
00:00:14,709 --> 00:00:04,960
america's space agency nasa

3
00:00:17,910 --> 00:00:16,390
everybody knows about the great work

4
00:00:19,349 --> 00:00:17,920
that nasa does

5
00:00:20,470 --> 00:00:19,359
in space

6
00:00:22,950 --> 00:00:20,480
they take

7
00:00:23,990 --> 00:00:22,960
us on a journey to mars and even

8
00:00:26,550 --> 00:00:24,000
farther

9
00:00:28,470 --> 00:00:26,560
out into the solar system and beyond

10
00:00:29,429 --> 00:00:28,480
but charlie and i are here to tell you

11
00:00:31,910 --> 00:00:29,439
about

12
00:00:33,430 --> 00:00:31,920
some things that nasa does that you guys

13
00:00:35,590 --> 00:00:33,440

probably don't know about and you'll be

14

00:00:38,389 --> 00:00:35,600

surprised to know what they do

15

00:00:39,510 --> 00:00:38,399

nasa shows us how the earth is actually

16

00:00:41,990 --> 00:00:39,520

changing

17

00:00:43,910 --> 00:00:42,000

that's right will

18

00:00:45,750 --> 00:00:43,920

learning how to live in space is only

19

00:00:47,990 --> 00:00:45,760

one of nasa's missions

20

00:00:50,389 --> 00:00:48,000

as a former shuttle astronaut i flew out

21

00:00:51,430 --> 00:00:50,399

of flew out outside of our planet four

22

00:00:53,029 --> 00:00:51,440

times

23

00:00:55,189 --> 00:00:53,039

living in space

24

00:00:58,150 --> 00:00:55,199

is going to be part of our future but

25

00:00:59,189 --> 00:00:58,160

living on this planet humanity's home is

26

00:01:02,229 --> 00:00:59,199

critical

27

00:01:04,789 --> 00:01:02,239

an important part of nasa is from day

28

00:01:06,469 --> 00:01:04,799

one has been using space to better

29

00:01:09,109 --> 00:01:06,479

understand earth

30

00:01:11,910 --> 00:01:09,119

we want to know how our planet works and

31

00:01:13,350 --> 00:01:11,920

how we affect it and how it might change

32

00:01:16,390 --> 00:01:13,360

in the future

33

00:01:18,310 --> 00:01:16,400

right now nasa has 20 spacecraft zipping

34

00:01:19,590 --> 00:01:18,320

around the planet gathering amazing

35

00:01:22,310 --> 00:01:19,600

science data

36

00:01:24,469 --> 00:01:22,320

they can see carbon dioxide in the air

37

00:01:26,950 --> 00:01:24,479

water reserves below the ground

38

00:01:30,069 --> 00:01:26,960

the heat of our planet is absorbing and

39

00:01:31,670 --> 00:01:30,079

the inside of hurricanes they're doing

40

00:01:34,310 --> 00:01:31,680

amazing stuff

41

00:01:36,469 --> 00:01:34,320

this is the first time in human history

42

00:01:39,109 --> 00:01:36,479

that we can really see and hope to

43

00:01:42,469 --> 00:01:39,119

understand how a planet lives and

44

00:01:43,190 --> 00:01:42,479

breathes it's a tall order but nasa's on

45

00:01:47,510 --> 00:01:43,200

it

46

00:01:51,350 --> 00:01:47,520

one of the biggest challenges facing

47

00:01:53,590 --> 00:01:51,360

everyone on earth today climate change

48

00:01:54,789 --> 00:01:53,600

because we have these incredible tools

49

00:01:57,190 --> 00:01:54,799

in space

50

00:01:58,789 --> 00:01:57,200

we can now see the changes across the

51
00:02:01,670 --> 00:01:58,799
whole planet

52
00:02:04,230 --> 00:02:01,680
we can see the facts

53
00:02:06,230 --> 00:02:04,240
we have seen the steady shrinking of the

54
00:02:08,389 --> 00:02:06,240
arctic sea ice

55
00:02:10,949 --> 00:02:08,399
and we've measured how much water the

56
00:02:13,830 --> 00:02:10,959
ice sheets in greenland

57
00:02:16,070 --> 00:02:13,840
and antarctica has lost to the ocean

58
00:02:18,710 --> 00:02:16,080
we've seen sea levels rise around the

59
00:02:21,190 --> 00:02:18,720
world and we've seen how climate change

60
00:02:23,750 --> 00:02:21,200
can affect human health through urban

61
00:02:25,350 --> 00:02:23,760
heat waves and the spread of diseases

62
00:02:28,070 --> 00:02:25,360
like malaria

63
00:02:30,150 --> 00:02:28,080

on the plus side we've seen the ozone

64

00:02:32,630 --> 00:02:30,160

hole gradually getting better

65

00:02:35,110 --> 00:02:32,640

a great success story where science

66

00:02:38,070 --> 00:02:35,120

drove global action that's helping our

67

00:02:39,990 --> 00:02:38,080

planet but the real payoff of collecting

68

00:02:42,470 --> 00:02:40,000

all this environmental information from

69

00:02:45,350 --> 00:02:42,480

space year after year is that it helps

70

00:02:47,430 --> 00:02:45,360

us better understand how earth works and

71

00:02:50,070 --> 00:02:47,440

as scientists figure that figure that

72

00:02:53,270 --> 00:02:50,080

out we can begin to see what the future

73

00:02:54,550 --> 00:02:53,280

holds and how our action can influence

74

00:02:56,710 --> 00:02:54,560

that future

75

00:02:59,670 --> 00:02:56,720

like what could happen if co2 in the

76

00:03:01,589 --> 00:02:59,680

atmosphere continues to increase

77

00:03:03,910 --> 00:03:01,599

new nasa research found that mega

78

00:03:06,630 --> 00:03:03,920

droughts could become more likely by the

79

00:03:07,589 --> 00:03:06,640

end of this century in the western us

80

00:03:10,070 --> 00:03:07,599

now

81

00:03:11,750 --> 00:03:10,080

we don't have all the answers yet but

82

00:03:13,990 --> 00:03:11,760

we're making progress

83

00:03:16,550 --> 00:03:14,000

we're steadily increasing the known and

84

00:03:17,750 --> 00:03:16,560

decreasing the unknown about how earth

85

00:03:20,070 --> 00:03:17,760

is changing

86

00:03:22,229 --> 00:03:20,080

knowledge is a powerful tool

87

00:03:24,390 --> 00:03:22,239

and with it we can all be better

88

00:03:27,589 --> 00:03:24,400

stewards of our home planet

89

00:03:30,550 --> 00:03:27,599

this is earth day nasa is inviting all

90

00:03:32,550 --> 00:03:30,560

of you to become earth observers

91

00:03:34,070 --> 00:03:32,560

we are finally all getting around to

92

00:03:36,869 --> 00:03:34,080

space right because i want to be the

93

00:03:37,750 --> 00:03:36,879

first guy not in your dreams will

94

00:03:39,990 --> 00:03:37,760

no

95

00:03:42,949 --> 00:03:40,000

what we want everyone to do

96

00:03:45,750 --> 00:03:42,959

is stop for a moment on april 22nd and

97

00:03:48,070 --> 00:03:45,760

share their photos and videos of their

98

00:03:50,390 --> 00:03:48,080

favorite places they've been

99

00:03:53,190 --> 00:03:50,400

we'll be posting nasa's best shots from

100

00:03:54,390 --> 00:03:53,200

space to send the message that there

101
00:03:57,110 --> 00:03:54,400
really is

102
00:03:58,229 --> 00:03:57,120
no place at all like our home planet

103
00:04:00,149 --> 00:03:58,239
earth

104
00:04:03,110 --> 00:04:00,159
seems like i've heard that somewhere

105
00:04:05,750 --> 00:04:03,120
else before it's never been more true

106
00:04:08,470 --> 00:04:05,760
we all love this planet so let's be more

107
00:04:11,429 --> 00:04:08,480
observant of it let's learn more about

108
00:04:13,670 --> 00:04:11,439
it and nasa will keep circling the globe